

IN THE CLAIMS:

Please cancel Claims 18-37 and substitute therefor new Claims 38-55.

Claims 1-17 (Previously Canceled)

Claims 18-37 (Canceled)

38. (New) A sample heater assembly for use with a chemical agent detector, comprising:

 a sample containment reservoir having means for attaching to said chemical agent detector, said sample containment reservoir also having means for attaching a heating element to said sample containment reservoir; wherein said means for attaching said heating element to said sample containment reservoir further comprises a means for adjusting the distance between the heating element and the sample containment reservoir; and wherein said heating element is attached to said sample containment reservoir so that low volatility agents contained in said reservoir are effectively vaporized and detected by said detector.

39. (New) The sample heater assembly of claim 38, wherein said chemical agent detector comprises the M256 Chemical Agent Detector.

40. (New) The sample heater assembly of claim 38, wherein said sample containment reservoir includes a screened section to permit vaporized agents to pass therethrough.

41. (New) The sample heater assembly of claim 39, wherein said means for attaching said sample containment reservoir to said detector comprises a slotted channel.

42. (New) The sample heater assembly of claim 39, wherein said means for attaching said heating element to said sample containment reservoir comprises a slotted channel.

43. (New) The sample heater assembly of claim 42, wherein said slotted channel is effective for positioning said sample containment reservoir over a detection window in said M256 Detector.

44. (New) The sample heater assembly of claim 42, wherein said slotted channel positions said heating element above said reservoir.

45. (New) The sample heater assembly of claim 39, wherein said heating element comprises a Mustard Agent Heating Assembly.

46. (New) The sample heater assembly of claim 38, wherein said heating element comprises a battery driven electrical resistance heater.

47. (New) The sample heater assembly of claim 38, wherein said heating element comprises a chemical reaction heater.

48. (New) The sample heater assembly of claim 38, wherein said heating element comprises pyrotechnic components for heat generation.

49. (New) The sample heater assembly of claim 38, wherein said low volatility agents comprise one or more chemical warfare agents.

50. (New) The sample heater assembly of claim 49, wherein said one or more chemical warfare agents are selected from the group consisting of blister agents, blood agents, and nerve agents.

51. (New) The sample heater assembly of claim 50, wherein said nerve agent comprises VX.

52. (New) A method for detecting low volatility agents, comprising the steps of:
providing a sample containment reservoir having means for attaching to a chemical agent detector, said sample containment reservoir also having means for attaching a heating element to said sample containment reservoir; wherein said means for attaching said heating element to said sample containment reservoir further comprises a means for adjusting the distance between the heating element and the sample containment reservoir;

attaching said sample containment reservoir to said chemical agent detector;
placing one or more low volatility agents into said sample containment reservoir;
attaching a heating element to said sample containment reservoir; and
heating the sample containment reservoir effectively to vaporize the low volatility agents for detection by said chemical agent detector.

53. (New) The method of claim 52, wherein said heating element comprises a Mustard Agent Heater Assembly.

54. (New) The method of claim 52, wherein said one or more low volatility agents comprises chemical warfare agents.

55. (New) The method of claim 52, wherein the step of placing one or more low volatility agents into said sample containment reservoir further comprises the steps of absorbing a low volatility agent with M8 Detection Paper and inserting the M8 Detection Paper having absorbed low volatility agent into said sample containment reservoir.